A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L31/18 H01L31/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H01L} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 5 332 918 A (DIADIUK VICKY ET AL) 26 July 1994 (1994-07-26)	1-3, 5-11,14, 15,17-20
A	column 1, line 63 -column 7, line 13; figures 1-6	4,11,12, 26-29
X	WO 98 28656 A (GEORGIA TECH RES INST; JUODAWLKIS PAUL W (US); MCINTURFF DAVID T () 2 July 1998 (1998-07-02)	1-5,7,8, 12,14-21
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X	US 4 521 256 A (KINOSHITA HIROSHI ET AL) 4 June 1985 (1985-06-04)	1-4,7, 14,15
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Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.	
Special categories of clied documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the International filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filling date but later than the priority date claimed	"T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention date on the which may throw doubts on priority claim(s) or its cited to establish the publication date of another nor other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.	
Date of the actual completion of the international search	Date of mailing of the international search report	
26 January 2004	03/02/2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer	
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Boero, M	



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